



Contribution ID: 176

Type: **not specified**

Higher-curvature Gravities from Braneworlds and the Holographic c-Theorem

Friday 13 January 2023 12:50 (15 minutes)

We study the structure of the higher-curvature gravitational densities that are induced from holographic renormalization in AdS_{d+1} . In a braneworld construction, such densities define a d -dimensional higher-curvature gravitational theory on the brane, which in turn is dual to a $(d-1)$ -dimensional CFT living at its boundary. We show that this CFT_{d-1} satisfies a holographic c-theorem in general dimensions, since at each and every order the higher-curvature densities satisfy c-theorems on their own. We examine various other features of the holographically induced higher-curvature densities.

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Session Classification: 15' Contribution